

20010508.qrp v02_n183.qrl.20010508

Date: Tue, 8 May 2001 19:03:05 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2183

QRP-L Digest 2183

Topics covered in this issue include:

- 1) [97810] Re: [OT] Mysteries of Cypher
by w6ors@juno.com
- 2) [97811] BCD switch pinout
by w6ors@juno.com
- 3) [97812] HELP: OHR-100A
by "Phinizy, William" <wphinizy@filenet.com>
- 4) [97813] MORE FREE PARTS
by "Phinizy, William" <wphinizy@filenet.com>
- 5) [97814] W3EDP Antenna
by "Mike Duke" <k5xu@concentric.net>
- 6) [97815] Re: Solar Power
by "Bob Tellefsen" <n6wg@earthlink.net>
- 7) [97816] OK no more whining Jim (AL7FS)... ;-)
by "Rod Cerkoney" <n0rc@hotmail.com>
- 8) [97817] ARS Sprint & the 706MKIIG
by "Rod Cerkoney" <n0rc@hotmail.com>
- 9) [97818] Paddles for sale
by Bob Welch <p326@earthlink.net>
- 10) [97819] Re: ARS Sprint & the 706MKIIG
by "Rod Cerkoney" <n0rc@hotmail.com>
- 11) [97820] Contest: Spartan Sprint - K7RE
by Brian Kassel <bkassel@dancris.com>
- 12) [97821] ARS SPRINT Apologies
by MertNellis@aol.com
- 13) [97822] Re: WB8RCR QSL Maker Software Question
by Bob Patten <n4bp@bc.seflin.org>
- 14) [97823] Re: ARS Sprint & the 706MKIIG
by Bob Patten <n4bp@bc.seflin.org>
- 15) [97824] Re: [OT] Mysteries of Cypher
by "Tony Fishpool" <g4wif@btinternet.com>
- 16) [97825] homebrew@qth.net
by Bill Meara <n2cqr@clix.pt>
- 17) [97826] 17mtr DSB: Problem with LO
by Bill Meara <n2cqr@clix.pt>
- 18) [97827] Re: ARS Sprint & the 706MKIIG
by "Karl F. Larsen" <k5di@zianet.com>
- 19) [97828] Re: ARS Sprint & the 706MKIIG

by "Rod Cerkoney" <n0rc@hotmail.com>
20) [97829] 360-degree Operating Challenge
by "Conant, Paul" <paul.conant@lmco.com>
21) [97830] Re: Comments on the 1/4 wave counterpoise used on my W3EDP (or random wire) + L-Tuner config.
by dmaliniak@penton.com
22) [97831] WTB: HW-9 WARC KIT
by "AB0CD" <ab0cd@uswest.net>
23) [97832] W3EDP info : long
by Tom Mc <tjmc@erols.com>
24) [97833] Maldol whip antenna for the FT-817
by Chuck Ludinsky <cjl@mitre.org>
25) [97834] MI QRP Net
by ed.kwik@delphiauto.com
26) [97835] NEQRP SSB NET Tuesday 7:00PM EDST 7.285
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
27) [97836] Re: W3EDP Antenna
by "Delbert Long" <ad6we@hotmail.com>
28) [97837] Need Info on PLL MODing CB rigs for QRP 10 meter operation
by "Sam Billingsley" <sambillingsley@earthlink.net>
29) [97838] Satellite QRP on AO-40
by "laura halliday" <marsgal42@hotmail.com>
30) [97839] Re: homebrew@qth.net
by "Steven Weber" <kd1jv@moose.ncia.net>
31) [97840] Spartan Sprint - May 2001 de AL7FS
by Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
32) [97841] Re: Why do QRPers Build?
by Harris Keith E CONT CNIN <harris_k@crane.navy.mil>
33) [97842] Re: 80 m NE QRP Net QSO on a 20m Vertical
by Bill Coleman <aa4lr@arrl.net>
34) [97843] Re: Maldol whip antenna for the FT-817
by ABCQRP <w6abc@yahoo.com>
35) [97844] SLV: SD-20 or Black Widow
by "Jim McKinley" <flyable@starpower.net>
36) [97845] Re: Why do QRPers Build?
by Oleg Borodin <vector72@lipetsk.ru>
37) [97846] Re: HELP: OHR-100A and more on "FREE PARTS" (incredibly verbose but interesting)
by "Phinizy, William" <wphinizy@filenet.com>
38) [97847] Words per minute
by <igeq100@iupui.edu>
39) [97848] RE: Words per minute
by Mike Gipe <mgipe@reliablemeters.com>
40) [97849] NorCal Pizza Pizza!
by Mike Gipe <mgipe@reliablemeters.com>
41) [97850] Re: Why do QRPers Build?
by "Mike Branca" <w3irz@att.net>

- 42) [97851] K-1 to buy
by Bob Welch <p326@earthlink.net>
- 43) [97852] Line noise Info needed
by ed.kwik@delphiauto.com
- 44) [97853] RE: Line noise Info needed
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 45) [97854] RE: Words per minute
by Mike Gipe <mgipe@reliablemeters.com>
- 46) [97855] Re: Need Info on PLL MODing CB rigs for QRP 10 meter operation
by "Phinizy, William" <wphinizy@filenet.com>
- 47) [97856] RE: Words per minute
by Mike Gipe <mgipe@reliablemeters.com>
- 48) [97857] Trade or sell PSK20
by Richard Rood <fcs@juno.com>
- 49) [97858] Re: Need Info on PLL MODing CB rigs for QRP 10 meter operation
by "Brian Murrey" <bmmurray@amexol.net>
- 50) [97859] WTB: SWX0+, unpopulated board only
by agtaylor@llnl.gov
- 51) [97860] Words per minute
by "Charles Mabbott" <crmabbott@mediaone.net>
- 52) [97861] Re: Trade or sell PSK20
by Richard Rood <fcs@juno.com>
- 53) [97862] Re: Words per minute
by "Karl B. Staddon" <ve6kbs@agt.net>
- 54) [97863] Words per minute - thanks
by <igeq100@iupui.edu>
- 55) [97864] Re: Words per minute
by "Karl F. Larsen" <k5di@zianet.com>
- 56) [97865] DSWTUNER.EXE
by "William Mabry" <n4qa@hotmail.com>
- 57) [97866] Moble with a 103" whip
by Paul Womble <pwomble1@tampabay.rr.com>
- 58) [97867] HW-99
by RLemmel@aol.com
- 59) [97868] [MH101] Almost there...
by "Brian Murrey" <bmmurray@amexol.net>
- 60) [97869] RE: Moble with a 103" whip
by <schoon@amgt.com>
- 61) [97870] Op amps
by "Brian Murrey" <bmmurray@amexol.net>
- 62) [97871] [MH101] Crystal Matching...why?
by "Brian Murrey" <bmmurray@amexol.net>
- 63) [97872] look what came in the mail...
by Mighty Mik <mightymik2@home.com>
- 64) [97873] [MH101] Starting Up Date --- May 9th, 2001
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
- 65) [97874] QRP For Sale
by "Brian Murrey" <bmmurray@amexol.net>

Date: Mon, 7 May 2001 12:40:43 -0500
From: w6ors@juno.com
To: n3aaz-qrp@juno.com, qrp-1@Lehigh.EDU
Subject: [97810] Re: [OT] Mysteries of Cypher
Message-ID: <20010507.130014.-376827.3.w6ors@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Am currently reading "the Code Book" by Singh. It's a real winner and I'm enjoying it immensely. Will have to check out the other two you recommended. Thanks.
Another you might be on the lookout for is "The Ultra Machine", and old paperback but really informative on the German code machine used during WWII.
73/72,
Corky W6ORS

On Mon, 7 May 2001 08:49:46 -0400 John R Kirby <n3aaz-qrp@juno.com> writes:

>
> Some GOOD reading on the subject that will take you from
> a 'few hundred BC through the quantum theory of cypher (radio
> included).
>
> The Codebreakers by David Kahn ISBN 0-684-83130-9 (The "CLASSIC")
>
> The Code Book by Simon Singh ISBN 0-385-49531-5 (new WOW ! ! !)
>
> Code Breakers edited by Hinsley and Stripp ISBN 0-19-285301-X
> (inside
> story of Bletchley Park)
>
>
> Enjoy
> John
> N3AAZ
>
> -----
> GET INTERNET ACCESS FROM JUNO!
> Juno offers FREE or PREMIUM Internet access for less!
> Join Juno today! For your FREE software, visit:
> <http://dl.www.juno.com/get/tagj>.
>

Date: Mon, 7 May 2001 12:34:36 -0500
From: w6ors@juno.com
To: qrp-1@Lehigh.EDU
Subject: [97811] BCD switch pinout
Message-ID: <20010507.130014.-376827.2.w6ors@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gee, I thought BCD meant Bad Conduct Discharge....
Corky

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Mon, 7 May 2001 16:44:28 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [97812] HELP: OHR-100A
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F04B76F2F@hq-expo2.filenet.com>

My great friend, K6BNC, gave me an OHR 100A 30-meter kit for my birthday and I just recently got around to building it when I discovered that I was missing the parts list and schematic. I think in my eagerness to paw through the kit well prior to building it, I misplaced them (they were not stapled to the manual/assembly instructions). I thought "no big deal" until I came to the part that says "solder the resistors in according to the parts list.."

Now I am up the estuary without an adequate propulsion device!

Is there a kind soul out there who could make a copy for me? I'd gladly slip a few bucks and an SASE in an envelope in repayment..

Thanks awfully,

W. H. Phinizy, K6WHP
Principal Engineer
FileNET Corporation

Date: Mon, 7 May 2001 16:58:00 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [97813] MORE FREE PARTS
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F04B76F31@hq-expo2.filenet.com>

I stumbled across -- literally -- a gazillion 160 nH (yes, nanohenry) molded inductors at a swap meet last Saturday. Are they useful? does anybody want some? If so, I guess I could squeeze a fair number -- about 25 to 50 -- into a business envelope.

If you want a swatch, send an SASE to:

William Phinizy, K6WHP
17044 Avenida Abuelitos
Fountain Valley, CA 92708

Maybe we could start a contest to see who can come up with the most ingenious for them. The prize could be..

..a swatch of 160-nH molded inductors..

W. H. Phinizy, K6WHP
Principal Engineer
FileNET Corporation

Date: Mon, 7 May 2001 21:32:56 -0500
From: "Mike Duke" <k5xu@concentric.net>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [97814] W3EDP Antenna
Message-ID: <00ce01c0d767\$4d99c3e0\$15030240@k5xu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Will someone please send the web page where I can find information about this antenna?

I had it once, but, failed to mark it.

Mike Duke, President
American Council of Blind Radio Amateurs

Date: Mon, 7 May 2001 18:31:56 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [97815] Re: Solar Power
Message-ID: <MABBJOEABOILMKCJCLFCCEDBCCAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Bruce
Add me to your solar group.
I recently picked up four panels from Harbor Freight here in town.
I get around 1 ampere of charging current into a battery so
should be useful keeping my battery bank topped up.
73, Bob N6WG

Date: Mon, 7 May 2001 21:19:53 -0600
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: <AL7FS@ARRL.NET>
Subject: [97816] OK no more whining Jim (AL7FS)... ;-)
Message-ID: <0E4256UnHAAaz7EjQxz000018e7@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

So, I turn on the rig for the last 30min of the ARS Spartan Sprint,
and check 20m--who's the first station I here booming in? Jim, AL7FS
an honest 559 or better. Heard him works other too!

Way to go Jim you were due FB sig here in CO.

73, Rod N0RC
Ft Collins, CO

 SuperFest 2001 14-Jul-2001
 <http://www.qsl.net/n0rc/hamfest/hamfest.html>
 BE THERE!

Date: Mon, 7 May 2001 21:40:10 -0600
From: "Rod Cercone" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <elecraft@qth.net>
Subject: [97817] ARS Sprint & the 706MKIIG
Message-ID: <OE21NKpuQZmq9LwLLbe0000148b@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

Tried the 706 in the last 30m of the ARS Spartan Sprint tonight. It did OK. The RX was fine but for serious contest work the 500Hz filter is a little wide. Also, no keyer built in, no biggie. But the most awkward thing is the RIT. When RIT is on the knob that twirls through menus is used for RIT control. That same knob has detents on it, so it is a little awkward for RIT control.

But I didn't get the 706 for QRP contesting, it's my "do everything else rig"--even SSB! What you say N0RC on SSB? Yep variety is the spice of life. This weekend I played SSB & even cranked the power up to 50W! ON NO :-)) Now, with that little interlude over it's back to the "real deal" QRP CW.

You know the K2 and the 706 make nice playmates, each complimenting and contrasting the other's strengths and features. But the K2 still remain my "favorite child".

73, Rod N0RC
Ft Collins, CO

SuperFest 2001 14-Jul-2001
<http://www.qsl.net/n0rc/hamfest/hamfest.html>
BE THERE!

Date: Mon, 07 May 2001 20:43:34 -0700
From: Bob Welch <p326@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97818] Paddles for sale

Message-ID: <3AF76B66.D51DEC2@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Have a Nye ssk-001 super squeeze key for sale .See what one looks like
at

<http://www.MorseX.com/nye/index.htm>

Works fine .Have actual picture if you want me to send it to you

\$45 shipped CONUS

Please reply direct

Bob, W8MCJ

Date: Mon, 7 May 2001 21:56:17 -0600
From: "Rod Cercone" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, <elecraft@qth.net>
Subject: [97819] Re: ARS Sprint & the 706MKIIG
Message-ID: <0E67x4vvsG0kevWWGxe000018fb@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OOPS, make that: ...no keyer MEMORIES built...

73, Rod N0RC
Ft Collins, CO

SuperFest 2001 14-Jul-2001
<http://www.qsl.net/n0rc/hamfest/hamfest.html>
BE THERE!

----- Original Message -----

From: "Rod Cercone" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, May 07, 2001 09:40 PM
Subject: ARS Sprint & the 706MKIIG

...
> is a little wide. Also, no keyer built in, no biggie. But the most
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

Date: Mon, 07 May 2001 21:13:40 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>
Subject: [97820] Contest: Spartan Sprint - K7RE
Message-ID: <3AF77274.5C85E2C6@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gangue:

Comments: Very good conditions this time around. Highlights were working
Jim, AL7FS with his 2W, AA4XX in NC with 100mw, and K4MF in FL
with just 200 mw. We must have had a nice E opening to the NW,
as the or and WA stations were especially strong on 20M. Great job
folks, and thanks to Russ, AA7QU, the ARS guru dude, for making this
event possible.

Rig: K-2 5W, 3 el Trapped Triband Beam and 40M Delta Loop.

Contest: ARS Spartan Sprint

Category:_____ Mode:_____ Power: 5 W

Callsign of Operator: K7RE

Exchanged Information: K7RE 559 5W

Hours of Operation:_____2.0__ Hours.

Band	QSOs	Points	Mult's
160	0	0	0
80	0	0	0
40	18	18	11
20	33	33	22
15	0	0	0
10	0	0	0
6	0	0	0
2	0	0	0
Totals	51	51	33

Tubby Division? Yes

Date: Tue, 8 May 2001 00:27:46 EDT
From: MertNellis@aol.com
To: qrp-1@lehigh.edu
Subject: [97821] ARS SPRINT Apologies
Message-ID: <36.159dac4e.2828cfc2@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I must apologize to all you ARS Sprint stations that I worked tonite.
I was at my home QTH but left most of my QRP stuff at out cabin where I
worked the TTF. No paddles here so had to use the straight key and only rig
was the NC-20. Sorry about that. My fist is not too good. But 20M seemed
to be in pretty good shape so had some fun anyway. Good sigs here from
AL7FS, K0ZK, W6BAB for Ak, Me, and CA respectively.
72 Mert W0UFO MNQRP

Date: Tue, 8 May 2001 01:11:27 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97822] Re: WB8RCR QSL Maker Software Question
Message-ID: <Pine.3.89.10105080124.D19194-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 7 May 2001, Henry Freedenberg wrote:

>
> Does anyone know why I can't fit 4 cards on a single page? Do I have a
> setting wrong? The most I seem to be able to do is print 2 complete cards
> one above the other. When I try to fit 4 cards on a page, the edge of one
> of the cards is truncated. I've tried moving the printing coordinates but
> it does not do any good. Am using V2.1.
For the stock I use, I need to print three at a time. To do that, I go
to the printer setup and select 11" X 14" paper. To do four per page,
select the appropriate paper size.

73,

Bob Patten, N4BP

, ' ' ,
(0 0)

Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>

QRP ARCI #3412 FISTS #7871 ARS #799 SOC #1 Whiners #6

Date: Tue, 8 May 2001 01:21:00 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: Rod Cercone <n0rc@hotmail.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97823] Re: ARS Sprint & the 706MKIIG
Message-ID: <Pine.3.89.10105080114.E19194-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 7 May 2001, Rod Cercone wrote:

>
> did OK. The RX was fine but for serious contest work the 500Hz filter
> is a little wide. Also, no keyer built in, no biggie. But the most
> awkward thing is the RIT. When RIT is on the knob that twirls through
> menus is used for RIT control. That same knob has detents on it, so it
Highly recommend the 250Hz filter addition, it has MUCH better skirts
than the 500. Mine has a keyer built in, yours does not??? Agree about
the RIT, awkward to reset to zero, but I've gotten used to it.

K2 has a much better receiver! :-)

73,

Bob Patten, N4BP

' ' ' '
(0 0)

Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>

QRP ARCI #3412 FISTS #7871 ARS #799 SOC #1 Whiners #6

Date: Tue, 8 May 2001 07:21:42 +0100
From: "Tony Fishpool" <g4wif@btinternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [97824] Re: [OT] Mysteries of Cypher

Message-ID: <005b01c0d787\$59e04280\$fcc6883e@LocalHost>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well it seems to be book review time. So on the same subject as the others, I am currently reading "Crypto" by Steven Levy. This chap has a very nice style and manages to describe the history of cryptography without descending into maths (well so far!).

In an informative and amusing way he relates how a collection of hippies and college professors managed to produce a system that many (at the time) said was impossible, and how the NSA tried to prevent ordinary people having electronic privacy in this electronic age. The hippies won!

There is a radio related interest in this for me. I'm working in the field of 802.11 wireless LAN, and recently, some chaps out at Berkley produced a report about the security of this medium (or potential lack of it!). This book has helped me understand that better.

72/3

Tony - G4WIF

----- Original Message -----

>From: <w6ors@juno.com>

> Am currently reading "the Code Book" by Singh.
<snip>

> John R Kirby <n3aaz-qrp@juno.com>

> writes:

>

> Some GOOD reading on the subject that will take you from
> a 'few hundred BC through the quantum theory of cypher (radio
> included).

>

> The Codebreakers by David Kahn ISBN 0-684-83130-9 (The "CLASSIC")

>

> The Code Book by Simon Singh ISBN 0-385-49531-5 (new WOW ! ! !)

>

> Code Breakers edited by Hinsley and Stripp ISBN 0-19-285301-X
> (inside
> story of Bletchley Park)

Date: Tue, 08 May 2001 07:48:59 -0400
From: Bill Meara <n2cqr@clix.pt>
To: qrp-1@Lehigh.EDU
Cc: 17mtr DSB:
Subject: [97825] homebrew@qth.net
Message-ID: <3.0.6.16.20010508074859.2df7aa5c@pop.clix.pt>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I noticed that the voltage level at the L0 port on my balanced modulator was very low.

Doug Deaw wrote that it should be 1 volt rms, but I'm measuring only .1 volt.

I think the problem is that my VX0 has a high Z output while the L0 port is low Z.

The VX0 has a JFET amp and was deigned to connect to the gate of a MOSFET. The L0 port is one coil on a 12 turn trifilar balanced modulator tranformer.

With no load on the VX0 output I get about 1.89 volts rms. The problem, of course, arises when I connect the output to the balanced modulator L0 port - then I only get around .1 volt at the port.

I've been playing around with an impedance matching transformer using a toroid core. with 12 turns on the primary and 3 on the secondary I can get the input voltage up to about .5 volts.

Am I heading in the right direction? Any other suggestions on how to handle this? Could it be that I just need another stage of amplification in the VX0, or should I continue to experiment with the transformer?

Thanks!

73 de CU2JL (aka N2CQR)

Bill Meara

Sao Miguel Island,

The Azores, Portugal

<http://planeta.clix.pt/n2cqr>

Date: Tue, 08 May 2001 07:51:54 -0400
From: Bill Meara <n2cqr@clix.pt>
To: qrp-1@Lehigh.EDU
Cc: homebrew@qth.net
Subject: [97826] 17mtr DSB: Problem with L0
Message-ID: <3.0.6.16.20010508075154.2df77bae@pop.clix.pt>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

(Sorry for sending this twice: I goofed up the address on the first attempt.)

I noticed that the voltage level at the L0 port on my balanced modulator was very low.

Doug Deaw wrote that it should be 1 volt rms, but I'm measuring only .1 volt.

I think the problem is that my VX0 has a high Z output while the L0 port is low Z.

The VX0 has a JFET amp and was deigned to connect to the gate of a MOSFET. The L0 port is one coil on a 12 turn trifilar balanced modulator tranformer.

With no load on the VX0 output I get about 1.89 volts rms. The problem, of course, arises when I connect the output to the balanced modulator L0 port - then I only get around .1 volt at the port.

I've been playing around with an impedance matching transformer using a toroid core. with 12 turns on the primary and 3 on the secondary I can get the input voltage up to about .5 volts.

Am I heading in the right direction? Any other suggestions on how to handle this? Could it be that I just need another stage of amplification in the VX0, or should I continue to experiment with the transformer?

Than

73 de CU2JL (aka N2CQR)

Bill Meara

Sao Miguel Island,

The Azores, Portugal

<http://planeta.clix.pt/n2cqr>

Date: Tue, 8 May 2001 06:02:41 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>

To: Rod Cerkoney <n0rc@hotmail.com>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [97827] Re: ARS Sprint & the 706MKIIG

Message-ID: <Pine.LNX.4.33.0105080544510.1186-1000000@localhost.localdomain>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Rod, you need to learn to Drive that 706. Yes the rit might be funky but that's not the way to work split. Use the A,B switches that are

more controlled and precise. The 500 Hz filter is quite adequate for contesting. I have contested with 2.1 KHz filtering and that works, but not well. Try it more on CW.

I have 2 Kenwood TS-50 radios for a reason. I have over a period of a year learned how to RUN it. At home I use 100 watts to contact a friend visiting on the east coast who has only a General license so we are stuck at 14.32-40 MHz ssb. With my TH-6DXX beam I generate a hole with 100 watts. I have recieved angry messages about my ancestry from poeple who OWNED the frequency I blundered onto. I pointed out they didn't own it any more...

Then in a FOX hunt I fire up the DSP filter, select low power which I decreased to 5 watts, set up the A vfo on the Fox and tune the B vfo to where I want to transmit. I call CQ on CW and SSB with 5 watts. Get lots of contacts.

I learned how to run the cmos keyer and now have 2 of those. I don't want an inboard keyer.

So when mobile or camped out in my RV I have the same radio I use at home, the same keyer and the same paddle. I works a lot better!

On Mon, 7 May 2001, Rod Cerkoney wrote:

> Folks,
>
> Tried the 706 in the last 30m of the ARS Spartan Sprint tonight. It
> did OK. The RX was fine but for serious contest work the 500Hz filter
> is a little wide. Also, no keyer built in, no biggie. But the most
> awkward thing is the RIT. When RIT is on the knob that twirls through
> menus is used for RIT control. That same knob has detents on it, so it
> is a little awkward for RIT control.
>
> But I didn't get the 706 for QRP contesting, it's my "do everything
> else rig"--even SSB! What you say N0RC on SSB? Yep variety is the
> spice of life. This weekend I played SSB & even cranked the power up
> to 50W! ON NO :-)) Now, with that little interlude over it's back to
> the "real deal" QRP CW.
>
> You know the K2 and the 706 make nice playmates, each complimenting
> and contrasting the other's strengths and features. But the K2 still
> remain my "favorite child".
>
> 73, Rod N0RC
> Ft Collins, CO
>
> *****

> SuperFest 2001 14-Jul-2001
> <http://www.qsl.net/n0rc/hamfest/hamfest.html>
> BE THERE!
> *****
>
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 8 May 2001 06:39:19 -0600
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [97828] Re: ARS Sprint & the 706MKIIG
Message-ID: <0E262voxWz8YsW7CsM900001b48@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Karl,

----- Original Message -----

From: "Karl F. Larsen" <k5di@zianet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, May 08, 2001 06:02 AM
Subject: Re: ARS Sprint & the 706MKIIG

>
> Rod, you need to learn to Drive that 706. Yes the rit might be
> funky but that's not the way to work split. Use the A,B switches
that are

I don't want to work split, I want to work RIT--there is a subtle
difference. In fact there are times when I want to work XIT, the 706
can't do that--the K2 can!

> more controlled and precise. The 500 Hz filter is quite adequate for

There are times when it would be nice to have a narrower filter. And,
yes I know I can get one, I don't want one. The 706 is will not be my
contesting machine, I have the K2 for that, yes I know you're tied of

hearing about the K2--like the Eagles say--get over it. ;-)

The K2 has 4 filter settings that are easy & fast to cycle though, and I can set them for what ever BW I want. Far superior.

...TS50 comments deleted...

For me the ideal CW Rig is the K2 period!

I didn't buy the 706 for it's contesting/CW ability. I bought it for the many different things it could do--like a Maytag washer it does nothing extremely well, but does just about everything, above average. ;-) I will use the 706 for:

AM/FM/SWL BCB in the shack 75%

VHF/UHF shack/mobile rig (all mode unlike a "dual bander") 10%

PSK-31 10%

HF SSB on a FEW "lost weekends" per year 3%

HF CW 2%

80-90% of my operating time is devoted to HF CW and will remain that way for the foreseeable future.

73, Rod N0RC
Ft Collins, CO

SuperFest 2001 14-Jul-2001

<http://www.qsl.net/n0rc/hamfest/hamfest.html>

BE THERE!

Date: Tue, 08 May 2001 06:48:34 -0600

From: "Conant, Paul" <paul.conant@lmco.com>

To: "Qrp-L (Post To List) (E-mail)" <qrp-l@lehigh.edu>

Subject: [97829] 360-degree Operating Challenge

Message-ID: <675067CF647BD4118DEA00508BE32AB47EAB37@emss02m09.ems.lmco.com>

Content-return: allowed

MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

The other day I narrowly missed having a QSO with a station in South Dakota. My 600mW just was not quite enough for him to hear. Anyway, I looked up his call using the list's "RUN QRP-L X CALLS2DIST <call1> <call2>" command. Curiously, his heading was 0 degrees, due north of me. For some reason, that just gets ones attention a little more than a heading of 304 or 170 degrees. I'm not a "paper hanger", but how about an award for working all 360 compass points? Of course, this should be done at QRP power levels.

73,

Paul, WQ5X

Date: Tue, 8 May 2001 09:37:31 -0400
From: dmaliniak@penton.com
To: sambillingsley@earthlink.net
Cc: qrp-l@lehigh.edu
Subject: [97830] Re: Comments on the 1/4 wave counterpoise used on my W3EDP (or random wire) + L-Tuner
config.
Message-ID: <0FAEDB5C19.2586C170-0N85256A46.0049CFE1@penton.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Hi Sam:

Read your note on the list about the W3EDP with interest. I've been using the W3EDP, or reasonable fascimiles thereof, at home now for a couple of years. My shack is in my garage, behind which is a good-sized tree that's maybe 50 feet tall. I just use the deadly and banned-in-NJ slingshot to fire some 15-lb. monofilament as high in the tree as I can get it and haul the wire up, getting as much of it as high in the air as I can. I've got a big old gap over my rear garage door and 18-gauge stranded insulated wire is no problem getting through it and into the air.

I do use the called-for 17-foot counterpoise. I've noted that in the writeup on the W3EDP in Heys's Practical Wire Antennas, you use the counterpoise on some bands and not on others. I keep it connected on all bands and have no problems. I can load the antenna on all bands, 80 to 10 meters, with my homebrew Z-match (not too different from the Emtech tuner and built from a W6JZZ article in QQ). Also, the KAT2 automatic tuner in my K2 loads the wire on all bands to 1.5:1 or better except for 15 meters, where it struggles to get to 2:1. Sometimes on 15 I'll run it through a 4:1

balun and that does the trick FB.

I've often thought about experimenting with 1/4-wave counterpoises. Maybe one of these evenings.

72,
David AD2A
Glen Rock, NJ

Date: Tue, 8 May 2001 07:43:51 -0600
From: "AB0CD" <ab0cd@uswest.net>
To: "QRP-L" <qrp-l@lehigh.edu>, "cqclist" <CQCLIST@EGROUPS.COM>
Subject: [97831] WTB: HW-9 WARC KIT
Message-ID: <009601c0d7c4\$ea863640\$ba85a0d8@dnvr.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

WTB: HW-9 WARC KIT

I've seen these kicking aroind from time to time. If anyone has a line on one, I'd like to buy it for a stock HW-9 I've just acquired.

72 Dick AB0CD
ab0cd@arrl.net

Date: Tue, 08 May 2001 10:05:31 -0400
From: Tom Mc <tjmc@erols.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [97832] W3EDP info : long
Message-ID: <3AF7FD2B.EAD2348C@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

To the person that requested same;

all best
Tom aa2vk

>From QRP-L;

There's been a lot of recent interest on qrp-l in the W3EDP antenna. This is an antenna with a 84 foot wire on one side of the output port and a 17 foot wire on the other side. The 17 foot side is sometimes called a "counterpoise." Here's my "take" on the antenna's operation, along with a suggestion or two:

To begin, the "counterpoise" isn't a real counterpoise, or at least it doesn't function like the usual counterpoise (except on 20 meters). The normal function of a counterpoise is to establish a point of minimum rf voltage or "ground" potential. A quarter-wave length of wire does this when the far end is open. (That's assuming it isn't detuned by nearby objects or by the ground itself.) Except on 20 meters, where it is approximately a quarter-wave long, the "counterpoise" part of the W3EDP antenna doesn't fit the bill here. The best approach is to forget about the short wire as a counterpoise.

To understand the W3EDP, instead conceive of the short side as one side of a feedline that's been separated or pulled apart from the other side of the feedline.

Now in your mind move the short side so that it's parallel to the first 17 feet of the long side and anywhere from several inches to a foot or so away. What you have is a section of feedline.

This gives you a standard *end-fed zepp* (in other words, a true zepp antenna, as in zeppelin flying), with a fundamental frequency of about 7 MHz. The flattop portion is 67 feet long, and the feedline is 17 feet long. The impedance of the feedline, which is not critical, is somewhere in the vicinity of 500-800 ohms, depending on wire diameter and spacing.

An end-fed zepp will work on its fundamental frequency and on odd and even harmonic frequencies (that is, where the flattop is an odd or even multiple of a half wave). With our W3EDP-derived end-fed zepp, the antenna will work satisfactorily on 40, 20, 15, and 10 meters.

The principle of operation is this: At the feedline end of the half wave flattop (or multiple half wave flattop), the impedance is *very* high. The impedance at the antenna end of the *open* side of the feedline is also *very* high. (Were it not for capacitive coupling to space and various objects, the impedance at the antenna end of the open side of the feedline would be

infinitely high, but in reality the current never quite falls to zero.) If the length of the flattop is properly adjusted, then the currents on the two sides of the feedline are *roughly* in balance, but out of phase, so not much radiation occurs from the feedline.

(If you're familiar with a j-pole antenna, it's the same principle of operation. And with both the end-fed zepp and the j-pole, there's controversy over whether they work quite as they're alleged to. But that's another story, getting into fine points of feedline balance and what happens at the antenna end of the open side of the feedline. Also, the resonance of the flattop on harmonic frequencies isn't exactly an odd or even multiple of the fundamental frequency, owing to differing impacts of nearby objects and of end effects. But that, too, can be put aside in understanding why the W3EDP works.)

Now, if you start pulling the feedline apart, you start to get more radiation from the two sides of it. If you move the short side out of the vicinity of the long side, you don't have a feedline effect at all and you have a W3EDP antenna. But--and this is crucial to the W3EDP design--the currents at the transmitter/tuner ends of the two wires are still roughly equal and roughly out of phase. This means that you can connect them to a link-coupled tuner without serious imbalance. And this remains true on harmonic frequencies.

This also explains why, if you try to operate a "standard" W3EDP on 30 meters, you may find significant hand-capacitance effects as you try to adjust the tuner.

If you follow through the foregoing analysis, you will see that there is nothing absolute about the 84 foot and 17 foot dimensions. In general, what you need is a short side of x feet, and a long side of $(x + y)$ feet, where y is a half wave at the lowest frequency. For example, you could set the two sides at 22 and 89 feet, for fundamental operation on 40 meters, and harmonic operation on 20, 15, and 10 meters. This would likely not be a good length for 15 meters, however, because the impedance at the tuner would be quite high. (Think of the input impedance of a half-wave length of feedline that's terminated in a high impedance.) Indeed, the "standard" W3EDP is likely to have a high feedpoint impedance on 10 meters, just as in the case of an end-fed zepp fed with a half wave feedline. For 10 meters, the 22 and 89 foot dimensions would probably be better in terms of keeping the impedance at the tuner within a satisfactory range.

An idea for including 30 meters in the W3EDP design is to have a

second short side to switch to. With the standard 84 foot length for the long side, a short side of 38 feet should give reasonable balance on 30 meters (the rough conceptual equivalent of a 46 foot flattop and a 38 foot feeder).

There is one *important* point to keep in mind. Unless the short side is run fairly close to and parallel to lower portion of the long side, there will be significant radiation from the short side. This means that it is best *not* to have it on or close to the ground (in the fashion of the usual counterpoise). If it's close to ground, it will be radiating into a rather lossy environment. In fact (without having modeled the different configurations for comparisons, or having done actual comparative tests), I'd say there is at least a theoretical advantage in running the short side in true "feedline" fashion, within several inches or a foot of the lower portion of the long side and roughly parallel to it. (Or get the wires close to this configuration.) The result will be more of the total radiation occurring at a greater height and thus lower near-field ground losses.

I've used a W3EDP with one of my z-matches, with no difficulty on the indicated bands. I'd imagine the W3EDP design should pose no problem with Roy Gregson's ZM-1 or ZM-2, either, although the two output links in my design give a little more flexibility. A standard link-coupled tuner (which L.B. carefully describes on his Web site) should be fine, too. A single-ended tuner--L network, T network, etc.--requires a balun (and that may present its own problems.)

Charlie, w6jjz
clofgren@benson.mckenna.edu

The W3EDP is an interesting antenna, and is described in Practical Wire Antennas by John D. Heys, G3BDQ. It consists of an 85' wire and a 17' wire that's sometimes called a "counterpoise". The counterpoise isn't connected for 80m or for 10m, but is connected for 15m, 20m, and 40m. The W3EDP is very easy to deploy, needing only one elevated support. I have used the the W3EDP successfully on 20m during the 1997 Freeze Your B___ Off contest, on 20m and 40m during the 1998 Freeze Your B___ Off contest, during a weekend trip to Greenbo Lake State

Park in Kentucky, and on 20m and 40m during the The 1998 Flight of the Bumblebees. Following the recommendations of Charlie Lofgren, W6JJZ, I have configured my W3EDP such that the 17' is half of a parallel feedline, using 0.75" x 1.5" sheet styrene pieces as separators. In addition, my W3EDP features a sliding "button" insulator on the radiating element to allow easy deployment as an inverted-L. The W3EDP has proven itself to be an easy-to-deploy portable antenna.

<http://www.homeusers.prestel.co.uk/g3ycc/w3edp.htm>

The W3EDP end fed wire antenna lends itself readily to QRP and portable operation.

A simple matching unit is needed to couple the wire to the rig and a counterpoise is required for some bands, however there is room for experimentation here.

It has been shown that different lengths or removal of the counterpoise altogether, can improve performance, as described in RadCom, August 1996 by G3LCK.

The Tuning capacitor in the AMU can be a 365 - 500pF broadcast type or a miniature version is OK for QRP use.

Wire 85ft

Counterpoise lengths

3.5 & 7.0Mhz - 17ft
14Mhz - 6.5ft
28Mhz - none

Tuning Unit

Values for coils in the unit, based on a 2 inch former and 16 swg wire:

3.5Mhz 21 turns
7.0Mhz 7 turns
14.0Mhz - 5 turns.

End Feed Zepp info; from.....

<http://funnelweb.utcc.utk.edu/~cebik/fdim2.html>

Let's End With the Zepp

We have fed in the middle. We have fed to the side. Let's now take the final step and feed at the end. The antenna has been called the Zepp, Zeppelin, or end-fed Zepp. (The last arose when some writers called the 135' doublet a "center-fed Zepp.") Initially, the antenna was just a long piece of wire, end fed and trailing out the rear of the zeppelin. Feeding was relatively easy with direct connections to the output tanks of high impedance tube amplifiers. Ground operators added feedlines and produced the antenna that appears in Figure 20. Some argue on theoretical grounds that the antenna cannot work, but folks keep on building and successfully using this odd little antenna that never wants to get near to a piece of low impedance coax.

Actually, the antenna wire part is simple. It is a half wavelength of wire on its fundamental frequency, and the current distribution is identical to that of a center-fed antenna of the same length. The low-current, high-voltage feedpoint presents a very high impedance, requiring the use of parallel feedline.

How can you feed an antenna when one side of the line is connected to nothing and the other is connected to an antenna of finite length? The lines must be radically unbalanced! Actually, the imbalance is not at all severe. First, the connection to nothing is not to absolute nothing, so the end of the open side of the line exhibits an extremely high but finite impedance. Likewise, the connected side of the line sees a super high impedance--and two highs make a pretty good balance.

Pretty good, but not perfect. However, precisely the imbalance remaining on the line--which yields some minor line radiation--permits the antenna to be matched at the shack end of the feedline. If the balance had been perfect, the feedpoint impedances on most bands would consist of thousands of ohms of resistance combined with thousands of ohms of reactance. Under these conditions, the impedance along most of the feedline would look like a more extreme version of Figure 21. The reactance would be low for much of each half-wavelength of line, but the resistance would be even lower, with values less than

1 ohm in many instances.

Fortunately, the balance is not perfect. What the ATU is likely to see are values that are quite reasonably matched. Again, a good old-fashioned inductively coupled tuner is likely the best bet for the end-fed Zepp.

--

```
*****
*   Member of NORCAL, NJQRP, LIQRP, SGCI   *
*               K2 #1213                   *
* LIQRP Web Page: www.erols.com/tjmc/liqrp *
*   Personal web page : www.erols.com/tjmc *
*****
```

Date: Tue, 08 May 2001 10:57:35 -0400
From: Chuck Ludinsky <cjl@mitre.org>
To: qrp-l@lehigh.edu
Subject: [97833] Maldol whip antenna for the FT-817
Message-ID: <3AF8095F.1A96304A@mitre.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anyone have any operating or other experience with the Maldol telescoping whip antenna (plus coils) for the FT-817? With and/or without counterpoise? Anyone check the VSWR?

72 DE K1CL,
Chuck

Date: Tue, 8 May 2001 11:03:41 -0400
From: ed.kwik@delphiauto.com
To: qrp-l@Lehigh.EDU
Subject: [97834] MI QRP Net
Message-ID: <05256A46.0052D42F.00@notes.delphiauto.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

It's Tuesday so tonight is another session of the Michigan QRP net. We are into summer conditions with QRN from storms but do not let that discourage you. Try it. The conditions just might surprise you.

The Michigan QRP net meets each Tuesday night at 9:00 PM Eastern time on 3.535 MHz. All hams are welcome.

Ed AB8DF

Date: Tue, 8 May 2001 11:27:22 -0400
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: neqrp@jona1.net, qrp-1@Lehigh.EDU
Subject: [97835] NEQRP SSB NET Tuesday 7:00PM EDST 7.285
Message-ID: <0FED93B12B.E324A9EF-0N85256A46.0054A2BB@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Thank you all for your feedback on the net times and days.
I have not yet digested the results as I was busy with grass
and Hosstraders!

Last weeks checkins where:

KC1FB	Jim	Norwalk,CT	FT7
N1EU	Barry	Nr Albany,NY	FT301S+G5RV
W1KRT	Ken	Springfield,NH	SGC2020 OCFD
K2QO	Mark	Clarence,NY	OMNI VI+ Full wave loop
K1VY	Neil	Hollis,NH	Drake C-line
K1CL	Chuck	Chelmsford,MA	FT-817
K1KID	Carl	Wareham ,MA	Checked in but lost net

Your net control was
N1ZSW Ron Worcester ,MA OMNI VI windom in attic

Try to checkin although 40 is not too cool these days.

Date: Tue, 08 May 2001 15:33:12 -0000
From: "Delbert Long" <ad6we@hotmail.com>

To: k5xu@concentric.net, qrp-l@Lehigh.EDU
Subject: [97836] Re: W3EDP Antenna
Message-ID: <F124aZVrDs9aA0PpBpc00003bc6@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Try this one

<http://www.g3ycc.karoo.net/w3edp.htm>

Delbert Long, AD6WE
2111 Cheyenne Way Unit 9
Fullerton, CA 92833-4912
Grid Square DM13aw

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Tue, 8 May 2001 11:32:52 -0400
From: "Sam Billingsley" <sambillingsley@earthlink.net>
To: <QRP-L@Lehigh.EDU>
Subject: [97837] Need Info on PLL MODing CB rigs for QRP 10 meter operation
Message-ID: <000701c0d7d4\$258cd8c0\$094baf8d8@sbillingsley>

A year or so back someone on the list was working on a analyzing and setup a procedure to modify CD xcvs for ham use. The mods were in the area of changing the PLL portion of the rig.

Can someone point me to a web page of the folks involved or to the specific time frame for the QRP-L messages. I have the QRP-L archives on CD and can extract the message exchanges if I can cut down the search time frame.

Sam Billingsley AE4GX Atlanta, GA North Georgia QRP Club

Date: Tue, 08 May 2001 15:48:52
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [97838] Satellite QRP on AO-40
Message-ID: <F2570VShLddFnbK04QB00005ba7@hotmail.com>

Mime-Version: 1.0
Content-Type: text/plain; format=flowed

They've turned on some of the radios on A0-40, and reports are coming in of transponder operation. The lowest power reported so far is from OE1DMB, who reports (from amsat-bb):

>I was able to work A0-40 today with real qrp conditions.
>Here is my setup:
>
>Uplink 70cm
>FT 790 RII with 2 Watts (no PA !)
>3 meters Aircell 7
>9 element Yagi antenna with about 11dBi linear polarized
>that gives an eirp of about 25 Watts !
>
>Downlink 13cm
>35cm dish with coffee can feed linear polarized
>DB6NT preamp 35 dB NF < 1dB
>5 meters Aircell 7
>AR-5000
>
>With this setup I was able to hear my own signal very weak,
>but readable in SSB...

He added in a later posting that the downlink dish has an offset feed.

This is gonna be *fun*...

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89mg pied a terre..."
ICBM: 49 15.042 N 122 59.053 W - Hospital/Shafte

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Tue, 8 May 2001 11:24:26 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: n2cqr@clix.pt
Cc: qrp-l@lehigh.edu
Subject: [97839] Re: homebrew@qth.net
Message-ID: <200105081556.f48Fur604242@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

> Am I heading in the right direction? Any other suggestions on how to
> handle this? Could it be that I just need another stage of amplification
> in the VX0, or should I continue to experiment with the transformer?

>

Bill,

You definatly need to add an amplifier. DBDM's need about 10 mw of drive and you woun't get that from your jfet osc directly. If you do try to get that much out of the VX0, you will start to have stability and drift problems. The amplifier also has the benifit of putting some isolation between the VX0 and mixer, always a good idea.

When you have enough drive, the signal to the mixer should look like a square wave. If the L0 still looks like a sine wave, your not driving the mixer diodes fully on.

72,

Steve, KD1JV in the white Mountains of New Hampshire

"melt solder"

Date: Tue, 08 May 2001 08:02:26 -0800

From: Jim Larsen AL7FS <AL7FS@pobox.alaska.net>

To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>

Subject: [97840] Spartan Sprint - May 2001 de AL7FS

Message-ID: <3AF81892.D5853321@pobox.alaska.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Greetings from Alaska,

Now that was fun. Much better than the recent QRPTTF where I manage a Q-rate of one per hour for the six hours. This time I managed 23 QS0s with contacts in WA, ND, AZ, MN, ID, CO, UT, GA(3 Qs), CA, TN(2 Qs), NV and FL. The QRPp folks at 1 watt or less were in evidence with QS0s with N7RVD(WA), K0BFT(MN), K04WX(GA), K4MF(FL-300 mW), AF4PP(GA) and K0Y0(CO-250 mW).

I finally found a spot to operate just below 14.059 and there were no loud FISTS QS0s in progress. Don't forget to tune down as well as up. I ran a couple of my contacts with 2 watts but in general found it too tough for enhanced fun so went back up to 5 watts.

Please note: If you are not playing in the Spartan Sprints you are missing a lot of fun.

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska
(BP51cc) - 61.101 North, 149.824 West
mailto:al7fs@arrl.net - <http://www.qsl.net/al7fs/>

Date: Tue, 8 May 2001 10:48:44 -0500
From: Harris Keith E CONT CNIN <harris_k@crane.navy.mil>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [97841] Re: Why do QRPers Build?
Message-ID:
<4F76B3D4A76AD111803B00A0C9893D9C06ED8D57@cninexchsrv05.crane.navy.mil>
MIME-Version: 1.0
Content-Type: text/plain

Gang,

I figure the best answer is the same reason a dogs licks themselves,
because they can. :^)

72/73 de N9KH

Date: Tue, 8 May 2001 12:07:26 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <ke3fl@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [97842] Re: 80 m NE QRP Net QSO on a 20m Vertical
Message-ID: <200105081607.MAA13351@mail3.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 4/27/01 10:02 AM, Philip Karras at ke3fl@yahoo.com wrote:

>Well did I laugh last night. I checked into the New
>England QRP Net believing I was on my 80m dipole when
>in fact I'd tuned up the R5 vertical instead! Still
>made it in with only 2Watts, wonder how much better it
>would have been with the REAL dipole?

I've got about 2 dozen 160m contacts under my belt using my R7000 and 90
watts without a tuner. Most were during the North American QSO Party
(NAQP) contest and I just tried to radiate enough signal to pick up a
couple of multipliers. Some were during the CQ 160m contest.

One of them is even an SSB contact. Man, that was hard....

Hopefully, I'll have an inverted-L up before August.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Tue, 8 May 2001 09:49:39 -0700 (PDT)
From: ABCQRP <w6abc@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [97843] Re: Maldol whip antenna for the FT-817
Message-ID: <20010508164939.78894.qmail@web14202.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi Chuck (and list),
I "just" bought the 20 meter whip/coil set and have
not had any success "yet". The bands have been in
rather poor shape over the past week, so it might not
be a fair test so far. I will try again during this
week and see how it goes. I had my suspicions about
using this type of antenna but thought I'd give one of
them a try. I am using it in conjunction with a ZM2
tuner on which I mount the actual whip and coil and
then run a short coax to the back of the FT-817. SWR
by this arrangement looks good. Now to only get a
contact would be satisfying. I'll keep you posted
when it happens.
73,
Jack W6ABC

Do You Yahoo!?
Yahoo! Auctions - buy the things you want at great prices
<http://auctions.yahoo.com/>

Date: Tue, 8 May 2001 13:07:02 -0400
From: "Jim McKinley" <flyable@starpower.net>
To: <NoVaQRP@topica.com>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [97844] SLV: SD-20 or Black Widow
Message-ID: <003c01c0d7e1\$50b92be0\$c180fea9@oemcomputer>

I would like to put together a SLV antenna. The support most widely used has been the Black Widow fishing pole but now I see the SD-20 advertised in World Radio. Has someone used both of these poles or knows enough about each to tell me the difference and if one would be better than the other for use with my antenna project?

Jim WD4OJY
Manassas, VA

Date: Tue, 08 May 2001 19:57:08 +0400
From: Oleg Borodin <vector72@lipetsk.ru>
To: qrp-l@lehigh.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [97845] Re: Why do QRPers Build?
Message-ID: <3AF81754.666B28E0@lipetsk.ru>
MIME-Version: 1.0
Content-Type: text/plain; charset=koi8-r
Content-Transfer-Encoding: 7bit

My dear OM George!

Thank you very much for a nice reference of my little Micro-80 tcvr kit, it's a great pleasure for me, true. Yes, you are right, the posting is more expensive than the cost of components. But some times ago it was impossible to send a radio-details to foreign countries - nothing! That time I hid the details in any things and send it to Amateurs with a risk for myself. That was a trouble times.

> K3TKS say:

>

> If it weren't for the Herring Aid 5's, Tuna Tin II's, Micro-80's, Oner's,
> and a whole list of other more complex projects, How many of us would be
> here today?

>

> Funny thing, I just received a small package in the post today from
> Russia. Yes, yet another kit. The Micro-80 by Oleg Borodin, RV3GM.
> The postage probably cost more than the components. Think about that for a
> minute. It even had a case. A Plastic Tape Cassette Case wrapped in a
> Plain Brown Wrapper and tied with a rough brown string. The instruction
> sheet was in English and the Schematic was quite clear. It included

> details for 160-20 meters. You must provide the Crystal. The most
> interesting parts were the Semiconductors. The first time that I have seen
> Russian Transistors. The PCB was a bit thicker than normal, but quite
> suitable. May have been done in a home shop, but looks good for the job.
>
> I suspect that it will become popular on 80M along with many of the other
> little fun rigs that are too Simple to be bother with, Unless of course,
> having fun is your object.
>

Who want get a Micro-80 trcvr kit of parts - the World smallest tcvr -
contact with me, please. It's
possible
now, no problems.
The best wishes for all there! 72 & 73! de RV3GM/QRP
eng. Oleg V. Borodin E-mail: vector72@lipetsk.ru

Date: Tue, 8 May 2001 10:19:18 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [97846] Re: HELP: OHR-100A and more on "FREE PARTS" (incredibly verbose b
ut interesting)
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F04B76F45@hq-expo2.filenet.com>

Many thanks to all who responded with offers and suggestions. In the finest
tradition of QRPers helping one another, WA7SPY in Sacramento has already
posted the necessary materials.

Regarding the "FREE PARTS" -- in this case, the 160-nH molded inductors -- I
appropriated a roll of them from a kindly Korean gentleman. I would estimate
that I have approximately 50 feet worth at about 100 units per foot (you do
the math) and, based on the response, I should have plenty so you can send
an SASE and I'll try to fill the "orders". When I get low, I'll post here.

As far as the contest goes, there are two winners. In the technical division
based on sheer weight of knowledgeable advice and utility, Mr. 2N2-40, Jim
Kortge, K8IQY, gets the prize. He offers the following:

"About the right inductance for 6 meter LP filter
coils, and the lower inductance value for some
of the diplexers that I have designed recently.
So most useable under the right circumstances!"

Jim will receive -- should he desire -- a generous handful of the little

beasts as an endowment for his hopefully-soon-to-be-published treatise entitled, "What the hell do you do with a whole roll of 160-nH molded inductors" (available at your local bookstore or amazon.com).

The winner in the freestyle division goes to the lovely and talented Mike Connelly, NA1XX, who suggests that they can, along with other similar components, be made into jewelry to appease the XYL. Likewise, Mike will receive a double-dip of same as a prize. Plus, he has been advised to provide me with an ample envelope for inclusion of other useful (no, really!) parts from the burgeoning stores of the K6WHP junk box..

While we're on the subject of FREE, some time ago, Sergio offered free PCB material for the price of postage and I stocked up thanks to his kindness. We in the Lake Perris QRP Society would like to do the same. It occurs to me that one of the advantages we here in SoCal have, besides Gray Davis, earthquakes, smog, and screamingly high gas prices, is the fact that there are three ham radio swap meets per month. (neener, neener!) We are always tripping over these little gems and would be happy to make them available on an SASE, first-come-first-served basis if there is an interest. Now, we're not talking roller inductors or 3-500Zs but rather parts we can stuff into SASEs. Hopefully, this will help out those in the more remote regions or who are financially challenged.

Don't worry, this won't be like a government program -- no forms to fill out, etc. Just send an SASE and we'll mail the stuff back. But be forewarned, however. I'll try to turn on the "low parts" light soon enough but if I got your SASE and I'm out, then I'm out.

Hope this helps and thanks for listening.

72,

Bill, K6WHP

Date: Tue, 8 May 2001 12:21:58 -0500 (EST)
From: <igeq100@iupui.edu>
To: QRP List <qrp-l@Lehigh.edu>
Subject: [97847] Words per minute
Message-ID: <Pine.GS0.3.96.1010508121815.7308D-1000000@jade.iupui.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang -

I am looking for a generally accepted formula that will let me

translate the measured dits-per-second from a bug into an equivalent words-per-minute specification for ordinary text. I recall a thread on such a topic a while back, but have forgotten the bottom line. Can anyone help me with this?

TIA es 72,

Rich Meiss, WB9LPU

Date: Tue, 8 May 2001 10:24:23 -0700
From: Mike Gipe <mgipe@reliablemeters.com>
To: igeq100@iupui.edu, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97848] RE: Words per minute
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A964B56A@mission>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

>From memory, so please feel free to correct me if I am in error:

At 20 wpm, the dit duration is 60 mS. The space between dits is also 60 mS.

Sooo, if I did the algebra correctly:

$2.4 \times (\text{dits-per-second}) = \text{wpm}$

, where wpm (words per minute) is based on the 'standard' word "paris", including a word space.

Mike K1MG

>
> Gang -
>
> I am looking for a generally accepted formula that will let me
> translate the measured dits-per-second from a bug into an equivalent
> words-per-minute specification for ordinary text....
>
> Rich Meiss, WB9LPU
>
>

Date: Tue, 8 May 2001 10:31:14 -0700
From: Mike Gipe <mgipe@reliablemeters.com>
To: "QRP-L list (E-mail)" <qrp-l@Lehigh.edu>
Subject: [97849] NorCal Pizza Pizza!
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A964B56B@mission>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Gang --

Due to the imminent arrival of a most-notable QRP VIP into the fabled land of NorCal, we have a much appreciated excuse for a pizza party!

You are invited!

Time: 6:30 PM PDT
Date: Thursday May 10, 2001
Location: The usual Round Table Pizza on El Camino Real in Mountain View, just north of Hwy 85.
Justification: QRP, of course!

Are you coming?

Mike K1MG

Date: Tue, 8 May 2001 12:44:18 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [97850] Re: Why do QRPers Build?
Message-ID: <078d01c0d7e6\$82a0cc80\$340b4d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This one is easy. Why do folks climb Mt. Everest? The answer is, of course, because they don't know how to build ham radio sets.

Mike Branca W3IRZ in Conyers Georgia

Date: Tue, 08 May 2001 10:46:57 -0700
From: Bob Welch <p326@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97851] K-1 to buy
Message-ID: <3AF83110.839A9280@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I know this is a long shot!!!!!! but does any one have for sale a k-1 for 20 and 40. If yes please contact me direct with info.

Bob ,W8MCJ

Date: Tue, 8 May 2001 14:20:37 -0400
From: ed.kwik@delphiauto.com
To: qrp-1@Lehigh.EDU
Subject: [97852] Line noise Info needed
Message-ID: <05256A46.0064C837.00@notes.delphiauto.com>
Mime-Version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-Disposition: inline
Content-transfer-encoding: quoted-printable

I gotta get serious about my local power line noise problem. I would like to check into some gear that does a better job of locating noise sources. = I have the recent QST article but it seems to be more complicated than I need. = Does anyone have a copy of this article handy?

W. Leavitt, W3AZ, "A Line-Noise 'Sniffer' that Works," QST, Sep 1992, p= p 52-55.

Thanks

Ed AB8DF

=

Date: Tue, 8 May 2001 14:22:15 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: "'ed.kwik@delphiauto.com'" <ed.kwik@delphiauto.com>, Low Power Amateur Radio Discussion <grp-1@Lehigh.EDU>
Subject: [97853] RE: Line noise Info needed
Message-ID: <078F21595FA7D411B87B00805FA728E64A471D@atlexc02ntms.hboc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Ed,

Use the cheap and very effective, little portable AM radio! It will get you down to the pole and the null works great. Used it many times.

Jerry
W3CDE

-----Original Message-----

From: ed.kwik@delphiauto.com [mailto:ed.kwik@delphiauto.com]
Sent: Tuesday, May 08, 2001 11:21 AM
To: Low Power Amateur Radio Discussion
Subject: Line noise Info needed

I gotta get serious about my local power line noise problem. I would like to check into some gear that does a better job of locating noise sources. I have the recent QST article but it seems to be more complicated than I need. Does anyone have a copy of this article handy?

W. Leavitt, W3AZ, "A Line-Noise 'Sniffer' that Works," QST, Sep 1992, pp 52-55.

Thanks

Ed AB8DF

Date: Tue, 8 May 2001 11:45:54 -0700
From: Mike Gipe <mgipe@reliablemeters.com>

To: "Karl B. Staddon" <ve6kbs@agt.net>, "QRP-L list (E-mail)" <qrp-l@Lehigh.edu>
Subject: [97854] RE: Words per minute
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A964B570@mission>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Karl --

Good write-up, Karl.

I'm not sure which of us is correct, but the disparity is due to one small difference in our calculations.

You have used a letter space plus a word space at the end of the word "paris", while I assumed that the word space takes the place of the letter space after the "s". Note that we both assumed that the last dit of the "s" includes a one-element space before the word space.

With that difference, using your math (excellently described!), I calculate:

paris = 50 elements
20 wpm = 1000 elements per minute
= 16.6666... elements per second
thus @ 20 wpm, an element is 60 mS

and the conversion from elements per second to wpm would be

$1.2 \times \text{elements-per-second} = \text{wpm}$

Since the original question wanted a form which allowed using a measurement of dits per second, and a dit plus its space is two elements, the formula is

$2.4 \times \text{dits-per-second} = \text{wpm}$

I guess it all comes down to whether the time between the last (voiced) element of a word and the beginning element of the next is 8, 11, 7, or 10 elements! To be honest, I'm not sure.

Any experts out there with the authoritative answer?

Mike K1MG

> -----Original Message-----
> From: Karl B. Staddon [mailto:ve6kbs@agt.net]
> Sent: Tuesday, May 08, 2001 11:23 AM

> To: mgipe@reliablemeters.com
 > Subject: Re: Words per minute
 >
 >
 > Mike, here's how I look at the issue.
 >
 > Let's use "paris" as you suggest.
 > Assumptions:
 > dit = 1 element
 > dah = 3 elements
 > space between dits and/or dahs within a letter = 1 element
 > space between letters = 3 elements
 > space between words = 7 elements
 >
 > So, for the word "paris" I calculate 53 elements (14 + 8 + 10
 > + 6 + 8 + 7)
 >
 > Twenty words per minute would equal 1,060 elements per minute
 > (53 elements
 > in "paris" x 20).
 >
 > Twenty words per minute equals 17.66666 elements per second
 > (1,060 elements
 > per minute / 60 seconds).
 >
 > 20 words per minute / 17.66666 elements per second = a
 > constant of 1.1321
 >
 > 1.1321 x elements per second = words per minute
 >
 > e.g.
 >
 > 1.1321 x 17.66666 = 20 wpm (element length of 56.6 milliseconds)
 > 1.1321 x 26.4994 = 30 wpm (element length of 37.7 milliseconds)
 >
 > Cheers
 > Karl B. Staddon VE6KBS
 > CALGARY, AB
 >
 >

 Date: Tue, 8 May 2001 11:58:36 -0700
 From: "Phinizy, William" <wphinizy@filenet.com>
 To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
 Subject: [97855] Re: Need Info on PLL MODing CB rigs for QRP 10 meter operation
 Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F04B76F48@hq-expo2.filenet.com>

..if you mean "CB" as in "Citizen's Band" (aka, "Children's Band", "Chicken Band", etc.), I know of no web site, but have several articles from 1978-1981 73 Magazine on the subject. These largely addressed conversion of the HyGain CB boards that were abundant at the time. They ran under the recurring title of "CB-to-10: Part XXXX". While geared towards a specific board or unit, the techniques and theory were transferable and would serve as good background.

If you like, I would be happy to send you copies..

W. H. Phinizy, K6WHP
Principal Engineer
FileNET Corporation

Date: Tue, 8 May 2001 12:05:06 -0700
From: Mike Gipe <mgipe@reliablemeters.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97856] RE: Words per minute
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A964B572@mission>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Thought I'd check the Handbook for more info, but all I found was

"...a single dot-space that is part of a continuous sequence, 20 mS on and 20 mS off (a 60 wpm rate)...."

on page 17.50 of the 2000 ARRL Handbook.

Mike K1MG

Date: Tue, 8 May 2001 15:24:10 -0400
From: Richard Rood <fcsww@juno.com>
To: qrp-1@lehigh.edu
Subject: [97857] Trade or sell PSK20
Message-ID: <20010508.152412.-4054693.2.fcsww@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

My PSK20 works great! It has since I built it last October 2000,
Its gathering dust of late and I'd like to make it available to
someone who "needs" it. It is in the SWL custom case.

I would trade it for a like value rig - a SWnn+,
an NC40a or an SST nn. What do you have?

Or how does 100 bucks sound to you?

... communicate direct please ...

fcsww@juno.com

Dick W2SCF

Date: Tue, 8 May 2001 14:26:42 -0500

From: "Brian Murrey" <bmmurrey@amexol.net>

To: <wphinizy@filenet.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>

Subject: [97858] Re: Need Info on PLL MODing CB rigs for QRP 10 meter operation

Message-ID: <001901cd7f4\$d09e4800\$94362bd1@iquest.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Steve "Melt Solder" Weber was kitting a CB to 10M PLL kit about a year ago.
If he's not doing that now, he might be able to discuss the requirements. I
bought one of the kits he had for sale and then never got around to
modifying my CB. The CB he was using was a Maxon Model CB10 I think. Wally
World has then for \$39 or so. This kit was for 10M AM only.

----- Original Message -----

From: "Phinizy, William" <wphinizy@filenet.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Tuesday, May 08, 2001 1:58 PM

Subject: Re: Need Info on PLL MODing CB rigs for QRP 10 meter operation

> ..if you mean "CB" as in "Citizen's Band" (aka, "Children's Band",
"Chicken

> Band", etc.), I know of no web site, but have several articles from
> 1978-1981 73 Magazine on the subject. These largely addressed conversion
of

> the HyGain CB boards that were abundant at the time. They ran under the
> recurring title of "CB-to-10: Part XXXX". While geared towards a specific
> board or unit, the techniques and theory were transferable and would serve

> as good background.
>
> If you like, I would be happy to send you copies..
>
> W. H. Phinizy, K6WHP
> Principal Engineer
> FileNET Corporation
>
>

Date: Tue, 8 May 2001 12:52:05 -0700 (PDT)
From: agtaylor@llnl.gov
To: qrp-1@lehigh.edu
Subject: [97859] WTB: SWX0+, unpopulated board only
Message-ID: <200105081953.MAA09654@poptop.llnl.gov>
MIME-Version: 1.0
Content-Type: TEXT/plain; CHARSET=US-ASCII

If anyone has purchased the SW30+ to more easily obtain parts for the MH101 building project upcoming, I am interested in purchasing the board from you. Or... if you are wondering how you are gg to get all those parts, consider purchasing the kit from NN1G/SWL and selling me the PCB?! My goal is to make a Manhattan 'SW40' with some/all of the mods coming from the MH101 project and then make up one 'pretty' to package TFR-style. Both of mine will be for 40m, as noted.

Any takers??

My recent WTB post for a SW40 or SW40+ in a junko case came up dry.

Allan K7GT

Allan G Taylor

agtaylor@llnl.gov

Date: Tue, 8 May 2001 15:55:30 -0400
From: "Charles Mabbott" <crmabbott@mediaone.net>
To: <igeq100@iupui.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97860] Words per minute

Message-ID: <GAECLOGOMILPLBGKKPEGGELACHAA.crmabbott@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

Getting to much into math gets me excited.....

Quick and dirty, very dirty. If you have the advantage of a keyer that has a direct read out on rig. Hold the dits and listen with the bug. Hold the Iambic [dits] and listen for a similar sound at this point I look at SG 2020s readout. While mathematically not accurate, but close enough for government work...

8^)

73 ES oo

FP-113

=====

Chuck Mabbott

AA8VS

42 19' 52" N 83 28' 32" W

Grid Square EN82gh

Home Page: <http://aa8vs.dhs.org/aa8vs>

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of igeq100@iupui.edu

Sent: Tuesday, May 08, 2001 1:22 PM

To: Low Power Amateur Radio Discussion

Subject: Words per minute

Gang -

I am looking for a generally accepted formula that will let me translate the measured dits-per-second from a bug into an equivalent words-per-minute specification for ordinary text. I recall a thread on such a topic a while back, but have forgotten the bottom line. Can anyone help me with this?

TIA es 72,

Rich Meiss, WB9LPU

Date: Tue, 8 May 2001 16:00:09 -0400
From: Richard Rood <fcsww@juno.com>
To: qrp-1@lehigh.edu
Subject: [97861] Re: Trade or sell PSK20
Message-ID: <20010508.160010.-4054693.4.fcsww@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The PSK20 has been traded.....
(seventeen minutes... thanks to all hands)
Dick W2SCF

Date: Tue, 8 May 2001 13:47:17 -0600
From: "Karl B. Staddon" <ve6kbs@agt.net>
To: <mgipe@reliablemeters.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97862] Re: Words per minute
Message-ID: <00c801c0d7f7\$b293d2a0\$b8983b8e@Staddon.ab.hsia.telus.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mike, the power of your logic is overwhelming!

In my calculation I figured the letter "s" would represent 8 elements (3 for the dits + 2 for the spaces between the dits + 3 for the space following a letter). I then added 7 more elements for the word space. I should NOT have included the 3 elements after the last dit - i.e. I think the 7 element word space starts immediately following the transmission of the last dit in the letter "s" - hence 50 elements for "paris" would appear to be correct (not the 53 I originally suggested).

Cheers
Karl B. Staddon VE6KBS
CALGARY, AB

----- Original Message -----
From: "Mike Gipe" <mgipe@reliablemeters.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, May 08, 2001 12:45 PM
Subject: RE: Words per minute

> Karl --

>
> Good write-up, Karl.
>
> I'm not sure which of us is correct, but the disparity is due to one small
> difference in our calculations.
>
> You have used a letter space plus a word space at the end of the word
> "paris", while I assumed that the word space takes the place of the letter
> space after the "s". Note that we both assumed that the last dit of the
> "s"
> includes a one-element space before the word space.
>
> With that difference, using your math (excellently described!), I
calculate:
>
> paris = 50 elements
> 20 wpm = 1000 elements per minute
> = 16.6666... elements per second
> thus @ 20 wpm, an element is 60 mS
>
> and the conversion from elements per second to wpm would be
>
> $1.2 \times \text{elements-per-second} = \text{wpm}$
>
> Since the original question wanted a form which allowed using a
measurement
> of dits per second, and a dit plus its space is two elements, the formula
is
>
> $2.4 \times \text{dits-per-second} = \text{wpm}$
>
>
> I guess it all comes down to whether the time between the last (voiced)
> element of a word and the beginning element of the next is 8, 11, 7, or 10
> elements! To be honest, I'm not sure.
>
> Any experts out there with the authoritative answer?
>
> Mike K1MG
>
>
> > -----Original Message-----
> > From: Karl B. Staddon [mailto:ve6kbs@agt.net]
> > Sent: Tuesday, May 08, 2001 11:23 AM
> > To: mgipe@reliablemeters.com
> > Subject: Re: Words per minute
> >
> >

```

> > Mike, here's how I look at the issue.
> >
> > Let's use "paris" as you suggest.
> > Assumptions:
> > dit = 1 element
> > dah = 3 elements
> > space between dits and/or dahs within a letter = 1 element
> > space between letters = 3 elements
> > space between words = 7 elements
> >
> > So, for the word "paris" I calculate 53 elements (14 + 8 + 10
> > + 6 + 8 + 7)
> >
> > Twenty words per minute would equal 1,060 elements per minute
> > (53 elements
> > in "paris" x 20).
> >
> > Twenty words per minute equals 17.66666 elements per second
> > (1,060 elements
> > per minute / 60 seconds).
> >
> > 20 words per minute / 17.66666 elements per second = a
> > constant of 1.1321
> >
> > 1.1321 x elements per second = words per minute
> >
> > e.g.
> >
> > 1.1321 x 17.66666 = 20 wpm (element length of 56.6 milliseconds)
> > 1.1321 x 26.4994 = 30 wpm (element length of 37.7 milliseconds)
> >
> > Cheers
> > Karl B. Staddon VE6KBS
> > CALGARY, AB
> >
> >
> >

```

```

-----

Date: Tue, 8 May 2001 15:05:49 -0500 (EST)
From: <igeq100@iupui.edu>
To: QRP List <qrp-l@Lehigh.edu>
Subject: [97863] Words per minute - thanks
Message-ID: <Pine.GS0.3.96.1010508150154.7308G-100000@jade.iupui.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

```


Gang -

Thank you for all of the suggestions. I verified the formula experimentally by connecting the output of a Tick keyer (which wakes up at 15 wpm) to my oscilloscope and counting the number of dits per second (6 and small change). 6.25×2.4 does equal 15 wpm; as Chuck says, this is good enough for government work (or folk music).

Tnx to all

Rich, WB9LPU

Date: Tue, 8 May 2001 14:13:40 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <igeq100@iupui.edu>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97864] Re: Words per minute
Message-ID: <Pine.LNX.4.33.0105081411160.1442-100000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have no idea what the formula is, but with my cmos keyer if I press all 4 buttons for a moment the instructions tell me it comes up fresh sending at 20 wpm. How it does this is a mystery.

On Tue, 8 May 2001 igeq100@iupui.edu wrote:

> Gang -
>
> I am looking for a generally accepted formula that will let me
> translate the measured dits-per-second from a bug into an equivalent
> words-per-minute specification for ordinary text. I recall a thread on
> such a topic a while back, but have forgotten the bottom line. Can anyone
> help me with this?
>
> TIA es 72,
>
> Rich Meiss, WB9LPU
>
>
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 08 May 2001 16:49:43 -0400
From: "William Mabry" <n4qa@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [97865] DSWTUNER.EXE
Message-ID: <F28DjoYAPNXRPmcarcR00000020b@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Ok, folks.
That about wraps up this little project.
Many thanks to Jeff Davis, N9AVG and
Jim Giammanco, N5IB for hosting the files.
Thanks also to QRP-L for the bandwidth.

To handle all the traffic (hardy har har :),
the files may be downloaded from either:

<http://www.callingcq.org/n4qa.html>

or

<http://www.qsl.net/n5ib/page9.html>

73.
Bill, N4QA

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Tue, 08 May 2001 17:48:14 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: Elecraft List <elecraft@qth.net>
Cc: QRP-L <qrp-l@lehigh.edu>
Subject: [97866] Moble with a 103" whip
Message-ID: <3AF8699E.F9934C4@tampabay.rr.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

In true last minute fashion, I'm trying to get an HF mobile antenna installed for the drive to Dayton from the Tampa Bay area.

I have a 20m hamstick, but would like to be able to get on 40m and perhaps 17m as well. A friend is using a CB 103" whip antenna, with an Icom antenna tuner mounted close to the antenna base, in his GMC minivan.

Would the same whip, mounted on the bumper of my F150, work with the KAT2 on the bands of interest? The difference between the two installs would be the location of the tuner in relation to the antenna.

Thanks!
Paul K4FB

Date: Tue, 8 May 2001 17:57:37 EDT
From: RLemmel@aol.com
To: qrp-l@lehigh.edu
Subject: [97867] HW-99
Message-ID: <a8.1520b637.2829c5d1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I have had in my possession a HW-99 Heathkit CW Transceiver since a trip to Dayton several years ago. I'm not sure why I purchased it. It has no documentation with it although I did look up the QST review but it did not offer very much info. For those of you who do not know what this rig is, it was a novice type cw only and covered 80,40,15, and 10 meters with a front panel power out adj up to abt 50 watts

I have made a few qsos with this rig but it primarily just occupies space. I am trying to decide what to do with it. If any one has a manual or perhaps a schematic I would gladly pay copying and mailing charges.

My plans as of now are to 1-sell it(perhaps where I got it), 2- if I can get some info on it maybe use it to experiment around and maybe learn something, or 3-Let it sit several more years.

Any input would be greatly appreciated. 72, Randy,wv9n

Date: Tue, 8 May 2001 17:10:40 -0500

From: "Brian Murrey" <bmurrey@amexol.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [97868] [MH101] Almost there...
Message-ID: <004101c0d80b\$fd192fa0\$75492bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well I thought I had all my parts for the SWL+ 30 project...but still missing the following:

QTY	Desc
3	3300 uF NPO MONO Caps (Should these really be 300 uF??)
1	.033 uF MONO or Disk Cap
1	2SC2078 (I think KB1ENS is getting me one)
1	MV1662 (I think KB1ENS is getting me one) Can we use MV209's?
1	100K 5 or 10 turn tuning Pot
1	5K RF gain Pot
2	T37-6 Toroids
2	FT37-43
1	T50-6
1	Power Jack
2	Jacks (Headphone and key)

I have everything else now, and many spare parts. I have all the caps and resistors (except anything mentioned above) some spare 4401's etc....anyone wanna trade some parts?

KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
39.558 N 86.095 W Johnson Co., Indiana
GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
Member of the American Radio Relay League - SOC #400
FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57

Date: Tue, 8 May 2001 15:18:19 -0700
From: <schoon@amgt.com>
To: <qrp-l@Lehigh.EDU>, <pwomble1@tampabay.rr.com>
Subject: [97869] RE: Moble with a 103" whip
Message-ID: <c=US%a=_%p=American_Geotech%l=AG-CALCITE-BDC-010508221819Z-900@ag-basalt-pxy.amgt.com>

MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Well, in general terms, base loaded whips don't work as well as center loaded types... Tune up the whip on 20 and switch it out for the Hamstick - you might be surprised at the difference. Best bet is to give it a try and yes, the tuner will need to be at the BASE of the antenna - not several feet away. You don't mention what year your F-150 is, but be prepared for some awesome fuel pump noise, and if it's a diesel - you can pretty much forget about HF!! Fuel injection system is outrageous in terms of RFI. I change lanes when one comes near me.

72

.mark

<http://www.qsl.net/ka6wke>

>-----

>From: Paul Womble[SMTP:pwomble1@tampabay.rr.com]

>Sent: Tuesday, May 08, 2001 2:48 PM

>To: Low Power Amateur Radio Discussion

>Subject: Moble with a 103" whip

>

>In true last minute fashion, I'm trying to get an HF mobile antenna

>installed for the drive to Dayton from the Tampa Bay area.

>

>I have a 20m hamstick, but would like to be able to get on 40m and

>perhaps 17m as well. A friend is using a CB 103" whip antenna, with an

>Icom antenna tuner mounted close to the antenna base, in his GMC

>minivan.

>

>Would the same whip, mounted on the bumper of my F150, work with the

>KAT2 on the bands of interest? The difference between the two installs

>would be the location of the tuner in relation to the antenna.

>

>Thanks!

>Paul K4FB

>

>

>

Date: Tue, 8 May 2001 17:23:29 -0500

From: "Brian Murrey" <bmurrey@amexol.net>

To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [97870] Op amps
Message-ID: <006701c0d80d\$82e082e0\$75492bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Is there a difference between a LM741C and a UA741C?

Are they part numbers for the same part?

Thanks

Specifically looking for DIP8 package.

=====
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GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
Member of the American Radio Relay League - SOC #400
FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57
=====

Date: Tue, 8 May 2001 17:32:19 -0500
From: "Brian Murrey" <bmmurrey@amexol.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [97871] [MH101] Crystal Matching...why?
Message-ID: <008d01c0d80e\$beab1a00\$75492bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

First of all, I am a circuit rookie. This may be a real dumb question but here it goes. I'm not too bashful to ask it, don't be too hard on me. <grin>

I got my crystals from Mouser. They all have the same freq marked on the outside of them. Doesn't this mean they are matched?

If it doesn't, then can someone 'splain to me what this matcgning is all about and why we need them matched?

Thanks es 72

(I'm cathing up on my email....sorry of this has already been discussed)

```
=====
KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
    39.558 N   86.095 W   Johnson Co., Indiana
    GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
    Member of the American Radio Relay League - SOC #400
    FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57
=====
```

Date: Tue, 08 May 2001 15:50:34 -0700
From: Mighty Mik <mightymik2@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [97872] look what came in the mail...
Message-ID: <5.0.2.1.0.20010508154931.00a205e0@mail>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

it's a NorCal toroid kit!

Date: Tue, 08 May 2001 22:54:43 +0100
From: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
To: qrp-l@Lehigh.EDU
Subject: [97873] [MH101] Starting Up Date --- May 9th, 2001
Message-ID: <5.0.2.1.0.20010508223909.00a5ace0@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

OK, it is about time to start this show on the road if many are to get their MH101 rigs ready for the first building contest for Manhattan rigs coming up at Ft Tuthill in July.

At this time you will need everything in the VFO section including the toroid for L1 which is a T50-6 with 29T of #26 wire.

Look at the schematic and the VFO section is everything in the area to the left of U5 and below U1. What is funny about this is that

at one time in my schematic routine I added code to do dashed outlines to show sections. Well, somewhere along the way I lost the code and hope that I can remember how to recreate it.

And I have to scramble to find the xtals for myself as I thought I had some in the parts bins....

And those of you that don't want to do 30 meters ---- the 40 meter and 20 meter versions will be about the same layout, so build along if you feel like it.

As discussions will involve using diagrams and pics MH101 will be mainly lead from the web page. I'm hoping that by this time in human history just about everyone has web access.

OK, clear the building area and separate the parts and get ready to solder. Keep the cat and the kids away and mark the territory as off limits to every man, woman, and child in the area.....

If you are still struggling with the parts, send me the list and I'll summarize and put a most wanted list on the web page.

FYI,

dit dit at 20wpm

Chuck Adams, K7QO CP-60
Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo>

TMPS-2001 Jan 12th -> April 15th, 2001 States = 49 DXCC = 15

States Needed AK DXCC --- K XE VE KH6 V73 HI3 FM5 OH3 C6 ZL1 C08 ZS6 EA8 EA7
PJ ZL2

Moving to Arizona? --- Bring your own water.

Date: Tue, 8 May 2001 17:54:51 -0500
From: "Brian Murrey" <bmmurrey@amexol.net>
To: "QRP-L" <qrp-l@lehigh.edu>, "pigs" <fpqrp-l@mpna.com>
Subject: [97874] QRP For Sale
Message-ID: <00ef01c0d811\$e4a5f920\$75492bd1@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi Gangs,

I bought this from someone on the list. I think Ed but I'm not sure. Anyway, I have too much going on right now to mess with it.

1 Unbuilt Kanga ONER transmitter...the world famous xmitter in a film box PCboard and all the parts for 80m. With docs, this can be built for any band, just change a couple parts like the crystal and you know...

1 Unbuilt Kanga ONER low pass filter kit, with docs, PCBoard, unopened, fits in a film box...keep Riley happy.

1 Unbuilt Kanga ONER QSK circuit. New, unopened, ready for you to build and operate with the above.

I think these kits are \$15 or \$20 each, I think I paid \$30 for the whole thing....how about \$25 including shipping?

Anyone?

```
=====
KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
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  FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57
=====
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End of QRP-L Digest 2183

